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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/973,142	10/09/2001	Ronald J. Biediger	TEX4542P0403US	6739
1942	7590 06/26/2003			
ROCKEY, MILNAMOW & KATZ, LTD. TWO PRUDENTIAL PLAZA, STE. 4700 180 NORTH STETSON AVENUE			EXAMINER	
			ROBINSON, BINTA M	
CHICAGO, IL 60601			ART UNIT	PAPER NUMBER
			1625	6
			DATE MAILED: 06/26/2003	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/973,142	BIEDIGER ET AL.
Office Action Summary	Examiner	Art Unit
	Binta M. Robinson	1625
The MAILING DATE of this communication a	ppears on the cover sheet w	ith the correspondence address
Period for Reply	N V IC CET TO EVOIDE AN	AONTHAON EDONA
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by stat - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thir od will apply and will expire SIX (6) MON tute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on _		
2a)⊠ This action is FINAL . 2b)□	This action is non-final.	
3) Since this application is in condition for allocation is in condition for allocation of claims Disposition of Claims		
4)⊠ Claim(s) <u>1-31</u> is/are pending in the applicati	ion.	
4a) Of the above claim(s) <u>20-24 and 26-29</u> is		eration.
5) Claim(s) is/are allowed.		
6) Claim(s) <u>1-19,25,26,30 and 31</u> is/are rejecte	ed.	
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requirement.	
Application Papers		
9) The specification is objected to by the Examin	ner.	
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to by 1	the Examiner.
Applicant may not request that any objection to	the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).
11) The proposed drawing correction filed on	is: a) approved b) c	disapproved by the Examiner.
If approved, corrected drawings are required in	• •	
12) The oath or declaration is objected to by the I	Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for forei	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)☐ All b)☐ Some * c)☐ None of:		
1. Certified copies of the priority docume	ents have been received.	•
2. Certified copies of the priority docume	ents have been received in A	Application No
3. Copies of the certified copies of the prapplication from the International E * See the attached detailed Office action for a limit	Bureau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for domes	•	
a) The translation of the foreign language p	provisional application has b	een received.
Attachment(s)	. •	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152) .

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Detailed Action

The 101 double patenting rejection of claims 1-19 and 25 are withdrawn in light of applicant's remarks at paper no. 8. The Restriction Requirement at paper no. 5 is FINAL.

(modified rejection)

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-19, 25, 26, 30, 31 are rejected under 35 U.S.C. 112, first paragraph, because the specification, does not reasonably provide enablement for the radicals R1, R4, R5 forming all heterocyclyl, heterocyclylalkyl, or alkylhetoercyclyl rings or when A is NR6, A, Y=CR1, R1 and R6 coming together to form all possible rings. These rings being formed with electron withdrawing groups in the ortho position have also not been enabled, since rings with only electron withdrawing groups in the meta position have been synthesized. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. The claims as recited are broader than the scope of enablement. The specification lacks direction or guidance for placing all of the alleged products in the possession of the public without inviting more than routine experimentation. The applicant is referred to *In re Wands*, 858 F.2d 731, 737,

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8 USPQ2d 1400, 1404 (Fed. Cir. 1988) which includes the incorporation of the 8 factors recited in *Ex parte* Foreman 230 USPQ 546 (Bd. Of App. And Inter 1986). reasons

There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue". These factors include 1)the breadth of the claims, 2) the nature of the invention, 3) the state of the prior art, 4) the level of one of ordinary skill, 5) the level of predictability in the art 6) the amount of direction provided by the inventor 7) the existence of working examples, and 8) the quantity of experimentation needed to make or use the invention based on the content of the disclosure. In re Wands, 858 F. 2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

In terms of factor 3 and 5, the state of the art and the level of predictability in the art cannot be predicted with any certainty beyond what specific test compounds /compositions and/or additional therapeutic agents should be used and are likely to provide productive results beyond those therapeutic compounds/compositions and/or additional therapeutic agents taught in the specification. Only examples 1-38 were tested for their affects on inhibiting binding to alpha 4 beta 1 integrin.

In terms of factors 4 and 6, the inventor provides no guidance beyond the therapeutic compound/compositions and/or therapeutic agents as taught in the specification as previously mentioned. As a result one of ordinary skill in the art could not predict what other types of therapeutic compounds/compositions and/or additional

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therapeutic agents, other than those taught in the specification; and with regards to the 7th and 8th wands factor, while the existence of working examples are limited to the aforementioned compounds/compositions as taught in the specification (example 1-38), an indeterminate quantity of experimentation would be necessary to determine all potential therapeutic compounds/compositions' effects on inhibition of alpha 4 beta 1 integrin.

In terms of the 8th Wands factors, undue experimentation would be required to make or use the invention based on the content of the disclosure due to the breadth of the claims, the level of predictability in the art of the invention, and the poor amount of direction provided by the inventor. Taking the above factors into consideration, it is not seen where the instant claim is enabled by the instant application.

Response to Applicant's Remarks

112, first paragraph rejection

The applicant alleges that the amendment of claims 1-19, 25, 26, 30 and 31 overcomes the 112, first paragraph enablement rejection. However the applicant is still claiming compounds of the formula as claimed in claim 1 where R1, R4, R5 form any heterocyclyl, heterocyclylalkyl, or alkylheterocyclyl ring, or when A is NR6, A, Y=CR1, R1 and R6 come together to form all possible rings which have not been enabled. The applicant has not synthesized compounds where R1, R4, R5 can form the full scope of heterocyclyl, heterocyclylalkyl, or alkylheterocyclyl rings being claimed or when A is NR6, A, Y=CR1, R1 and R6 come together to form all possible rings. Nor has the

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applicant enabled these rings being formed with electron withdrawing groups in the ortho position since rings with electron withdrawing groups in the meta position only have been synthesized.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binta M. Robinson whose telephone number is (703) 306-5437. The examiner can normally be reached on M-F (9:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alan Rotman can be reached on (703)308-4698. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-7922 for regular communications and (703)308-7922 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0193.

Binta Robinson

April 16, 2003

ALAN L. ROTMAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600

alan I. Rotman